

REPORT ON MACHINERY.

No. 7819

Received at London Office

Date of writing Report 28-6-17 When handed in at Local Office 19 Port of Belfast
 in Survey held at Belfast Date, First Survey 16th Dec 1913 Last Survey 21st June 1917
 g. Book. L.S.S. "Belgic" (ex "Belgenland") (Number of Visits 124) Gross 24547
 on the R.O. Jones Built at Belfast By whom built Harland & Wolff Ltd Tons { Net 15439
 when built 1917
 Engines made at Belfast By whom made - when made -
 Makers made at - By whom made - when made -
 Registered Horse Power ✓ Owners International Navigⁿ Co^y Ltd Port belonging to Liverpool
 Net Horse Power at Full Power 6099 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

COMBINE ENGINES, &c.—Description of Engines Parsons direct coupled No. of Turbines one
 Diameter of Rotor Shaft Journals, H.P. ✓ L.P. 22 $\frac{1}{2}$ " with 13" hole Diameter of Pinion Shaft ✓
 Diameter of Journals ✓ Distance between Centres of Bearings ✓ Diameter of Pitch Circle ✓
 Diameter of Wheel Shaft ✓ Distance between Centres of Bearings ✓ Diameter of Pitch Circle of Wheel ✓
 Diameter of Face ✓ Diameter of Thrust Shaft under Collars ✓ Diameter of Tunnel Shaft ✓
 as per rule 13.6 13.69
 as fitted 14.0
 of Screw Shafts One ✓ Diameter of same as per rule 14.6 Diameter of Propeller 13'-0" ✓ Pitch of Propeller 10'-0" ✓
 as fitted 15.5
 of Blades 4 ✓ State whether Moveable No ✓ Total Surface 73 sq ft Diameter of Rotor Drum, H.P. ✓ L.P. 11'-0" Astern ✓
 Diameter at Bottom of Groove, H.P. ✓ L.P. 12'-6 1/8" Astern ✓ Revs. per Minute at Full Power, Turbine 190 Propeller 190

PARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION				7'-4"	12'-2 $\frac{1}{2}$ "	8			
"				9'-5"	12'-7 $\frac{1}{2}$ "	8			
"				12'-3"	13'-1 $\frac{1}{2}$ "	7			
"				16'-4"	13'-9 $\frac{1}{2}$ "	7			
"									
"									
"									
"									

and size of Feed pumps

and size of Bilge pumps

and size of Bilge suction in Engine Room

In Holds, &c.

Bilge Injections ✓ sizes ✓ Connected to condenser, or to circulating pump ✓ Is a separate Donkey Suction fitted in Engine Room & size ✓
 All the bilge suction pipes fitted with roses ✓ Are the roses in Engine room always accessible ✓
 All connections with the sea direct on the skin of the ship ✓ Are they Valves or Cocks ✓
 They fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates ✓ Are the Discharge Pipes above or below the deep water line ✓
 They each fitted with a Discharge Valve always accessible on the plating of the vessel ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate ✓
 Pipes are carried through the bunkers ✓ How are they protected ✓
 All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges ✓
 Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record Refined) Manufacturers of Steel ✓
 Heating Surface of Boilers ✓ Is Forced Draft fitted ✓ No. and Description of Boilers ✓
 Working Pressure ✓ Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓
 Each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of Safety Valves to ✓
 Boiler ✓ Area of each valve ✓ Pressure to which they are adjusted ✓ Are they fitted with easing gear ✓
 Greatest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers ✓ Length ✓ Material of shell plates ✓
 Thickness ✓ Range of tensile strength ✓ Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams ✓
 Seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓
 Mountings of strength of longitudinal joint ✓ Working pressure of shell by rules ✓ Size of manhole in shell ✓
 Compensating ring ✓ No. and Description of Furnaces in each Boiler ✓ Material ✓ Outside diameter ✓
 Thickness of plates ✓ Description of longitudinal joint ✓ No. of strengthening rings ✓
 Working pressure of furnace by the rules ✓ Combustion chamber plates: Material ✓ Thickness: Sides ✓ Back ✓ Top ✓ Bottom ✓
 of stays to ditto: Sides ✓ Back ✓ Top ✓ If stays are fitted with nuts or riveted heads ✓ Working pressure by rules ✓
 Diameter of stays ✓ Diameter at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ End plates in steam space ✓
 Thickness ✓ Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays ✓
 Diameter at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom ✓
 Material of Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓
 Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays ✓
 across wide water spaces ✓ Working pressures by rules ✓ Girders to Chamber tops: Material ✓ Depth and ✓
 Length as per rule ✓ Distance apart ✓ Number and pitch of stays in each ✓
 Working pressure by rules ✓ Steam dome: description of joint to shell ✓ % of strength of joint ✓ Diameter ✓
 Material ✓ Description of longitudinal joint ✓ Diameter of rivet holes ✓ Pitch of rivets ✓
 Working pressure of shell by rules ✓ Crown plates: Thickness ✓ How stayed ✓

